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DECLARATION	N AND POWE	Attor	Attorney Docket No. LS5-001									
OF ATTORNEY	I	" "CV	Named Inventor	Liu								
OR DE	ESIGN _{IAN} 207	2004	COMPLETE IF KNOWN									
PATENT AP	PLICATION	Appl	cation Serial Number	10/643,752								
Declaration	Declaration	Filing	g Date	August 19, 2003								
Submitted with	Submitted after Initi	al Grou	p Art Unit	Not yet assigned								
Initial Filing I	Initial Filing Filing (surcharge Examiner Name Not yet assigned											
37 CFR 1.16(e) required)												
As a below named invento												
My residence, mailing address, and citizenship are as stated below next to my name.												
I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:												
EVOLVING NEW MOLECULAR FUNCTION												
	(Title of the Invention)											
the specification of which		, ,										
is attached hereto OR												
was filed on (MM/DD/YYYY)	08/19/2	003	as United States Appli	cation Serial Number	or PCT International							
Application Number	10/643,752	and was am	ended on (MM/DD/YYYY	0	(if applicable).							
I hereby state that I have re any amendment specificall	eviewed and underst y referred to above.	tand the conten	ts of the above-identified	l application, includin	g the claims, as amended by							
I acknowledge the duty to	disclose to the Pater	ations, material	information known by r	ne which became avai	tability as defined in 37 CFR ilable between the filing date							
of the prior application and	i the national or PC	T international	filing date of the continu	iation-in-part applicat	ion.							
I hereby claim foreign prio certificate(s), or 365(a) of	rity benefits under 3	35 U.S.C. 119(a al application	a)-(d) or (f), or 365(b) of which designated at least	any foreign application one country other that	on(s) for patent, or inventor's an the United States of							
America listed below and	have also identified	below, by chec	king the box, any foreig	n application for pater	nt, or inventor's							
certificate(s), or of any PC Prior Foreign Application		ication having	Foreign Filing Dat	e Priority	Certified Copy Attached?							
Number(s)		untry	(MM/DD/YYYY)		YES NO							
				.								
Additional foreign	n application numb	ers are listed o	a supplemental priority	data sheet attached h	ereto.							
I hereby claim the benefit u	under 35 U.S.C. 119	(e) of any Uni	ed States provisional ap	plication(s) listed belo	ow.							
Application Serial	Application Serial Number(s) Filing Date (MM/DD/YYYY)											
60/404,39			08/19/2002									
60/419,66			10/18/2002									
60/432,81 60/444,77			12/11/2002 02/04/2003		·							
60/457,78			03/26/2003									
60/469,86			05/12/2003									
60/479,49			06/18/2003									
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Declaration and Power of Attorney for Utility or Design Patent Application Serial No. 10/643,752

Atty. Docket No. LS5-001

Page 2 of 5

DECLARATION — Utility or Design Patent Application I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c), of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application. Parent Filing Date **Parent Patent Number** U.S. Parent Application or PCT Parent (MM/DD/YYYY) (if applicable) Serial Number Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet attached hereto. As a named inventor, I hereby appoint the following registered practitioners to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: Customer Number Place Customer Number Bar Code Label Here Registered practitioner(s) name/registration number listed below Registration Registration Number Number Name Name Duncan A. Greenhalgh Andrew F. Abramson 52,538 38,678 31,481 William R. Haulbrook 53,002 Steven M. Bauer Mark L. Beloborodov 50,773 Ira V. Heffan 41,059 Douglas J. Kline John V. Bianco 36,748 35,574 M. Brad Lawrence Robert S. Blasi 50,389 47,210 Michael H. Brodowski 41,640 William A. Meunier 41,193 43,526 Thomas C. Meyers 36,989 Jennifer A. Camacho Joseph A. Capraro, Jr. 36,471 Jennifer G. Moitoso 51,752 51,551 Ronda P. Moore 44,244 Fangli Chen Christopher H. Chung 50,351 Jeremy P. Oczek 50,794 John J. Cotter 38,116 Jamie H. Rose 45,054 James C. De Vellis 52,814 Christopher W. Stamos 35,370 Robert V. Donahoe 46,667 Diana M. Steel 43,153 Brian A. Fairchild 48,645 Robert J. Tosti 35,393 James E. Faikowski 54,089 Thomas A. Turano 35,722 Jason P. Fiorillo 52.892 Natasha C. Us 44,381 John V. Forcier 42,545 Christine C. Vito 39,061 Steven J. Frank 33,497 Daniel A. Wilson 45,508 Kia L. Freeman 47,577 Gerald E. Worth 45,238 Brian M. Gaff 44,691 Edward A. Gordon 54,130 Additional registered practitioners named on supplemental Registered Practitioner Information sheet attached hereto. Direct all correspondence to: Patent Administrator Testa, Hurwitz & Thibeault, LLP High Street Tower 125 High Street Boston, MA 02110 Tel. No.: (617) 248-7000 Fax No.: (617) 248-7100

Name of Sole or First Inv	entor:			□ A ₁	petition has b	een filed for th	n filed for this unsigned inventor				
Given Name	(first a	nd middle [if an	y])		Family Name or Surname						
David R.					Liu						
Inventor's Signature	K	2w 1	, 2	5		Date 10/30			/03		
Residence	City	Lexington	State	MA	Country	US		Citizenship	US		
Mailing Address	1 Fox	Fox Run Lane									
Mailing Address (ln. 2)	City	Lexington	State	MA	ZIP	02420	Coun	try	US		
Additional inventors a	re being	g named on the	su	pplemental	l Additional I	nventor(s) she	et(s) att	tached hereto.			
Name of Additional Joint Inventor, if any:						has been filed	l for thi	is unsigned in	ventor		
Given Nam	e (first	and middle [if a	ny])		Family Name or Surname						
Zev J.					Gartner						
Inventor's Signature						Date			,		
Residence	City	Somerville	State	MA	Country	US	<u> [</u>	Citizenship	US		
Mailing Address	66 Dir	nick Street, #1			I				<u> </u>		
Mailing Address (ln. 2)	City	Somerville	State	MA	ZIP	02143	Coun	try	US		
Name of Additional Join	t Invent	or, if any:			☐ A petiti	ion has been fi	led for	this unsigned	inventor		
	e (first a	nd middle [if an	y])			Family	/ Name	or Surname			
Jeffrey B.					Doyon						
Inventor's Signature							Date				
Residence	City	Allston	State	MA	Country	US		Citizenship	US		
Mailing Address	71 Ald	1 Aldie Street, #3									
Mailing Address (ln. 2)	City	Allston	State	MA	ZIP	02134	Country		US		

Name of Additional Join	nt Inventor, if any:				A petition has been filed for this unsigned inventor					
Given Name	e (first a	ınd middle [if an	yl)		Family Name or Surname					
Christopher T.		•			Calderone					
Inventor's Signature					Date				·	
Residence	City	Cambridge	State	MA	Country US Citizenship US				US	
Mailing Address	6 Plyr	nouth Street, #1								
Mailing Address (ln. 2)	City	Cambridge	State	MA	ZIP	02141	Country		US	
Name of Additional Joint Inventor, if any:					☐ A petit	ion has been fi	led for this	unsigned	inventor	
	e (first a	nd middle [if an	y])			Family	Name or S	urname		
Matthew W.					Kanan					
Inventor's Signature	, :			•			Date			
Residence	City	Cambridge	State	MA	Country	US	Citi	zenship	US	
Mailing Address	44 La	Langdon Street								
Mailing Address (ln. 2)	City	Cambridge	State	MĄ	ZIP	02138	Country		US	
Name of Additional Join	t Inven	tor, if any:			☐ A petit	ion has been fi	led for this	unsigned	inventor	
	e (first a	nd middle [if any	y])			Family	Name or S	urname		
Xiaoyu				Li :						
Inventor's Signature					Date				,	
Residence	City	Cambridge	State	MA	Country	US C	Citizenship	Peopl China	e's Republic of	
Mailing Address	22 Ma	arcella Street, #3	3							
Mailing Address (ln. 2)	City	Cambridge	State	MA	ZIP	02141	Country		US	
Name of Additional Join	t Inven	tor, if any:			☐ A petit	ion has been fi	led for this	unsigned	inventor	
	e (first a	ınd middle [if an	y])			Family	Name or S	urname		
Thomas M.					Snyder					
Inventor's Signature							Date			
Residence	City	Cambridge	State	MA	Country	US	Citi	zenship	US	
Mailing Address	70 Ki	rkland Street, #	9		_	_				
Mailing Address (In. 2)	City	Cambridge	State	MA	ZIP	02138	Country		US	

Name of Additional Joint Inventor, if any:					A petition has been filed for this unsigned inventor						
Given Name (first and middle [if any])						Fami	ly Name	or Surname	;		
Daniel M.					Rosenbaum						
Inventor's Signature							Date				
Residence	City	Somerville	State	MA	Country	US		Citizenship	US		
Mailing Address	69 Be	69 Beacon Street, #3									
Mailing Address (In. 2)	City	Somerville	State	MA	ZIP	02143	Coun	itry	US		

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		BECLARATION A	ND POWE	R Attorn	ey Docket No.	LS5-001						
4		OF ATSORNEY FO	R UTILIT	First N	lamed Inventor	Liu						
	NA	2 0 2004 OR DESIG	GN		. CO.	MPLETE IF KNOW	VN					
Q.	b .	PATENT APPLI	CATION	Applic	ation Serial Number	10/643,752	,					
		Declaration 🗵 Dec	laration	Filing	Date	August 19, 2003	· · · · · · · · · · · · · · · · · · ·					
		Submitted with Subm	itted after Initia	al Group	Art Unit	Not yet assigned						
		Initial Filing Filing	(surcharge	Exami	ner Name	Not yet assigned						
		37 CF	R 1.16(e) requ	ired)								
. 15												
		a below named inventor, I		•	1							
	•	residence, mailing address,				on original first and	ioint inventor (if plure)					
	l b	elieve I am the original, first and sare listed below) of the sare	and sole invent	or (if only one r hich is claimed	and for which a patent is	s sought on the inver	ntion entitled:					
			EV	OLVING NEW	MOLECULAR FUNC	TION						
	(Title of the Invention)											
	the specification of which											
ı	is attached hereto OR											
	(M	was filed on M/DD/YYYY)	08/19/20	003	as United States Applic	ation Serial Number	or PCT International					
THE CONTRACTOR	Ap	plication Number 10/6	43,752	and was amen	nded on (MM/DD/YYYY)	(if applicable).					
,	I h	ereby state that I have review amendment specifically refe	ed and understarred to above.	and the contents	of the above-identified	application, includir	ng the claims, as amended by					
	1.5	cknowledge the duty to discle 6, including for continuation the prior application and the	-in-part applica	itions, material i	nformation known by m	e which became ava	tability as defined in 37 CFR ilable between the filing date tion.					
	cer	ereby claim foreign priority b tificate(s), or 365(a) of any P nerica, listed below and have tificate(s), or of any PCT into	CT international also identified	al application w below, by check	hich designated at least sing the box, any foreign	one country other the application for pate	nt, or inventor's					
		ior Foreign Application			Foreign Filing Date	Priority	Certified Copy Attached?					
		Number(s)	Cou	intry	(MM/DD/YYYY)	Not Claimed	YES NO					
		` .										
i						<u> </u>						
					a supplemental priority							
	I h	ereby claim the benefit under Application Serial Num			d States provisional appate (MM/DD/YYYY)	lication(s) listed belo	ow.					
		60/404,395	ber (s)		08/19/2002		•					
		60/419,667		,	10/18/2002	-						
		60/432,812			12/11/2002	·						
		60/444,770			02/04/2003	·						
		60/457,789			03/26/2003	26/2003						
		60/469,866			05/12/2003							
		60/479,494			06/18/2003							

Declaration and Power of Attorney for Utility or Design Patent Application Serial No. 10/643,752

Atty. Docket No. LS5-001

Page 2 of 5

DECLARATION - Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c), of any PCT international application designating the

PCT international filing date of this U.S. Parent Application Serial Numb	or PCT Parent	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)
	OR	s to prosecute this application and t	o transact all business in the Patent Place Customer Number Bar Code Label Here
		(s) name/registration number lis	
Name	Registration Number	Name	Registration Number
Andrew F. Abramson Steven M. Bauer Mark L. Beloborodov John V. Bianco Robert S. Blasi Michael H. Brodowski Jennifer A. Camacho Joseph A. Capraro, Jr. Fangli Chen Christopher H. Chung John J. Cotter James C. De Vellis Robert V. Donahoe Brian A. Fairchild James E. Fajkowski Jason P. Fiorillo John V. Forcier Steven J. Frank Kia L. Freeman Brian M. Gaff Edward A. Gordon	52,538 31,481 50,773 36,748 50,389 41,640 43,526 36,471 51,551 50,351 38,116 52,814 46,667 48,645 54,089 52,892 42,545 33,497 47,577 44,691 54,130	Duncan A. Greenhalgh William R. Haulbrook Ira V. Heffan Douglas J. Kline M. Brad Lawrence William A. Meunier Thomas C. Meyers Jennifer G. Moitoso Ronda P. Moore Jeremy P. Oczek Jamie H. Rose Christopher W. Stamos Diana M. Steel Robert J. Tosti Thomas A. Turano Natasha C. Us Christine C. Vito Daniel A. Wilson Gerald E. Worth	38,678 53,002 41,059 35,574 47,210 41,193 36,989 51,752 44,244 50,794 45,054 35,370 43,153 35,393 35,722 44,381 39,061 45,508 45,238
Additional registered practitioners named on supplemental Registered Practitioner Information sheet attached hereto.			
Direct all correspondence to:	Patent Administrator Testa, Hurwitz & Thibeaul High Street Tower 125 High Street Boston, MA 02110 Tel. No.: (617) 248-7000 Fax No.: (617) 248-7100	t, LLP	

Name of Sole or First Inv	ventor			П А	netition has b	een filed for th	nis unsi	gned inventor		
		1 110 556	1\		· Family Name or Surname					
Given Name	e (first a	nd middle [if an	<u> </u>							
David R.					Liu					
Inventor's Signature		<u>-</u>				Date				
	0''	1.	Ctoto	MA	Country	US	<u> </u>	Citizenship	US	
Residence	City	Lexington	State	IVIA	Country			Citizensinp		
Mailing Address	1 Fox	f Fox Run Lane								
Mailing Address (ln. 2)	City	Lexington	State	MA	ZIP	02420	Coun	try	US	
Additional inventors are being named on the supplemental Additional Inventor(s) sheet(s) attached hereto.										
Name of Additional Joint Inventor, if any: A petition has been filed for this unsigned inventor							ventor			
Given Nan	ne (first	and middle [if a	ny])		Family Name or Surname					
Zev J.					Gartner					
Inventor's Signature	/	In a		K				10.3	;o.3	
Residence	City	Somerville	State	MA	Country	US		Citizenship	US	
Mailing Address	66 Dir	nick Street, #1	<u> </u>							
Mailing Address (ln. 2)	/City	Somerville	State	MA	ZIP	02143	Coun	try	US	
Name of Additional Join	t Invent	or, if any:			☐ A petit	ion has been fi	led for	this unsigned	inventor	
Given Nam	e (first a	nd middle [if ar	ıy])			Famil	y Name	or Surname		
Jeffrey B.	·				Doyon					
Inventor's Signature			,				Date			
Residence	City	Allston	State	MA	Country	US		Citizenship	US	
Mailing Address	71 Alc	1 Aldie Street, #3								
Mailing Address (ln. 2)	City	Allston	State	MA	ZIP	02134	Coun	itry	US	

Name of Additional Join	int Inventor, if any:				A petition has been filed for this unsigned inventor					
Given Name	e (first a	and middle [if an	 y])	-	Family Name or Surname					
Christopher T.				-	Calderone					
Inventor's Signature					Date					
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Mailing Address	6 Plyi	mouth Street, #1								
Mailing Address (ln. 2)	City	Cambridge	State	MA	ZIP	02141	Country		US	
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Given Name	e (first a	and middle [if an	y])			Family	y Name or S	urname		
Matthew W.					Kanan					
Inventor's Signature							Date			
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Given Name	e (first a	and middle [if any	y])			Family	y Name or Si	urname		
Xiaoyu					Li			<u>.,</u>		
Inventor's Signature			•				Date			
Residence	City	Cambridge	State	MA	Country	US C	Citizenship	People China	e's Republic of	
Mailing Address	22 Ma	arcella Street, #3	3							
Mailing Address (ln. 2)	City	Cambridge	State	MA	ZIP	02141	Country		US	
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Given Name	(first a	nd middle [if any	y])			Family	y Name or Si	urname		
Thomas M.					Snyder					
Inventor's Signature							Date			
Residence	City	Cambridge	State	MA	Country	US	Citiz	zenship	US	
Mailing Address	70 Kir	rkland Street, #9)							
Mailing Address (ln. 2)	City	Cambridge	State	MA	ZIP	02138	Country		US	

Name of Additional Joint Inventor, if any:				☐ A petition has been filed for this unsigned inventor							
Given Name (first and middle [if any])					Family Name or Surname						
Daniel M.					Rosenbaum) -					
Inventor's Signature				-	<u> </u>		Date	T .			
Residence	City	Somerville	State	MA	Country	US		Citizenship	US		
Mailing Address	69 Be	acon Street, #3	3	•							
Mailing Address (ln. 2)	City	Somerville	State	MA	ZIP	02143	Country	7	US		

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Express Mail Mailing Label No. EL932952135US

DECLARATION AND POWER	Attorney Docket No.									
OF ATTORNEY FOR UTILITY	First Named Inventor	Liu								
OR DESIGN	C	COMPLETE IF KNOWN								
PATENT APPLICATION	Application Serial Number	Application Serial Number 10/643,752								
☐ Declaration ☐ Declaration	Filing Date	August 19, 2003								
Submitted with Submitted after Initial	Group Art Unit	Not yet assigned								
Initial Filing Filing (surcharge	Examiner Name	Not yet assigned								
37 CFR 1.16(e) required)										
As a below named inventor, I hereby declare that:										
My residence, mailing address, and citizenship are as stated below next to my name.										
I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:										
EVOLVING NEW MOLECULAR FUNCTION										
	(Title of the Invention)									
the specification of which	(
is attached hereto										
OR ⊠ was filed on 08/19/2003 (MM/DD/YYYY)	as United States Appl	ication Serial Number	or PCT International							
Application Number 10/643,752 and	was amended on (MM/DD/YYY	Y)	(if applicable).							
I hereby state that I have reviewed and understand the any amendment specifically referred to above.	contents of the above-identifie	d application, including	ng the claims, as amended by							
I acknowledge the duty to disclose to the Patent Office all information known by me to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information known by me which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.										
I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, or inventor's certificate(s), or of any PCT international application having a filing date before that of the application on which priority is claimed.										
Prior Foreign Application Foreign Filing Date Number(s) Country Foreign Filing Date Priority Certified Copy Attached? (MM/DD/YYYY) Not Claimed YES NO										
Number(s) Country	Number(s) Country (MM/DD/YYYY) Not Claimed YES NO									
Additional foreign application numbers are	listed on a supplemental priorit	y data sheet attached b	nereto.							

I hereby claim the benefit under 35 U.S.C. 119	9(e) of any United States provisional application	ation(s) listed below.
Application Serial Number(s)	Filing Date (MM/DD/YYYY)	
60/404,395	08/19/2002	
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60/432,812	12/11/2002	•
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DECLARATION - Utility or Design Patent Application											
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U.S. Parent Application o Serial Numbe			arent Filing Date MM/DD/YYYY)		P	arent Patent Number (if applicable)					
Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet attached hereto.											
As a named inventor, I hereby appoint the following registered practitioners to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: OR Registered practitioners to prosecute this application and to transact all business in the Patent Place Customer Number Bar Code Label Here Registered practitioner(s) name/registration number listed below											
	Registration	n				Registration					
Name	Number	11	Name			Number					
					38						
Andrew F. Abramson Steven M. Bauer Mark L. Beloborodov John V. Bianco Robert S. Blasi Michael H. Brodowski Jennifer A. Camacho Joseph A. Capraro, Jr. Fangli Chen Christopher H. Chung John J. Cotter James C. De Vellis Robert V. Donahoe Brian A. Fairchild James E. Fajkowski Jason P. Fiorillo John V. Forcier Steven J. Frank Kia L. Freeman Brian M. Gaff Edward A. Gordon	52,538 31,481 50,773 36,748 50,389 41,640 43,526 36,471 51,551 50,351 38,116 52,814 46,667 48,645 54,089 52,892 42,545 33,497 47,577 44,691 54,130		Duncan A. Greenhalgh William R. Haulbrook Ira V. Heffan Douglas J. Kline M. Brad Lawrence William A. Meunier Thomas C. Meyers Jennifer G. Moitoso Ronda P. Moore Jeremy P. Oczek Jamie H. Rose Christopher W. Stamos Diana M. Steel Robert J. Tosti Thomas A. Turano Natasha C. Us Christine C. Vito Daniel A. Wilson Gerald E. Worth			,678 ,002 ,059 ,574 ,210 ,193 ,989 ,752 ,244 ,794 ,054 ,370 ,153 ,393 ,722 ,381 ,061 ,508					
Additional registered practitioners named on supplemental Registered Practitioner Information sheet attached hereto.											
Direct all correspondence to:	Patent Administr Testa, Hurwitz & High Street Tow 125 High Street Boston, MA 021 Tel. No.: (617) 2 Fax No.: (617) 2	thibeault, er 110 48-7000	LLP	·							

Name of Sole or First Inv	ventor:			☐ A p	etition has b	een filed for th	is unsi	gned inventor	
Given Name	e (first a	nd middle [if an	y])			Family	/ Name	or Surname	
David R.					Liu .				
Inventor's Signature					. I		Date		
Residence	City	Lexington	State	MA	Country	US		Citizenship	US
Mailing Address	1 Fox	Run Lane	·						
Mailing Address (ln. 2)	City	Lexington	State	MA	ZIP	02420	Coun	itry	US
Additional inventors a	are being	g named on the	sı	ıpplemental	Additional I	nventor(s) she	et(s) at	tached hereto.	
Name of Additional Join	t Invent	tor, if any:			A petition	has been filed	for th	is unsigned in	ventor
Given Nam	ne (first	and middle [if a	ny])			Famil	ly Nam	e or Surname	
Zev J.					Gartner				
Inventor's Signature		•					Date		
Residence	City	Somerville	State	MA	Country	US	1	Citizenship	US
Mailing Address	66 Dir	nick Street, #1	· · · · · · · · · · · · · · · · · · ·	<u> </u>		<u> </u>			
Mailing Address (ln. 2)	City	Somerville	State	MA	ZIP	02143	Cour	itry	US
Name of Additional Join	t Invent	tor, if any:			☐ A petit	ion has been fi	led for	this unsigned	inventor
Given Name	e (first a	nd middle [if ar	y])			Family	y Name	or Surname	
Jeffrey B.					Doyon				
Inventor's Signature		1/1/					Date		30-03
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Name of Additional Join	ıt Inven	itor, if any:			☐ A petit	tion has been	filed for	this un	signed	inventor
Given Nam	e (first	and middle [if ar				Fami	ly Name	or Sur	mame	
Christopher T.	o (msc	and middle [if the			Calderone		.,	<u> </u>		<u> </u>
Inventor's Signature	<u> </u>				<u> </u>		Date			· · · · · · · · · · · · · · · · · · ·
·		,							. ·	
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Mailing Address	6 Ply	mouth Street, #	1 ·							
Mailing Address (ln. 2)	City	Cambridge	State	MA	ZIP	02141	·Coun	itry		US
Name of Additional Join	t Inven	tor, if any:	_	A petit	tion has been t	filed for	this un	signed	inventor	
Given Nam	e (first	and middle [if ar		Fami	ly Name	or Sur	name			
Matthew W.	•				Kanan					
Inventor's Signature				- ***		·,· .	Date			
Residence	City	Cambridge	State	MA	Country	US		Citize	nship	US
Mailing Address	44 La	ngdon Street			•					
Mailing Address (ln. 2)	City	Cambridge	State	MA	ZIP	02138	Coun	ıtry		US
Name of Additional Join	t Inven	tor, if any:			☐ A petit	ion has been f	filed for	this un	signed	inventor
Given Nam	e (first a	and middle [if ar	ıy])		Family Name or Surname					
Xiaoyu					Li				·	
Inventor's Signature						,	Date			
Residence	City	Cambridge	State	MA	Country	US	Citizens		People China	e's Republic of
Mailing Address	22 M	arcella Street, #	3	•	· ·					
Mailing Address (ln. 2)	City	Cambridge	State	MA	ZIP	02141	Coun	try		US
Name of Additional Join	t Inven	tor, if any:			A petit	ion has been f	filed for	this un	signed	inventor
Given Name	e (first a	and middle [if an	y])			Fami	ly Name	or Sur	name	
Thomas M.	· •				Snyder					
Inventor's Signature			-				Date			
Residence	City	Cambridge	State	MA	Country	US		Citize	nship	US
Mailing Address	70 Ki	rkland Street, #	9	·	<u> </u>	1				
Mailing Address (ln. 2)	City	Cambridge	State	MA	ZIP	02138	Coun	try		US

Name of Additional Joint Inventor, if any:					A petition has been filed for this unsigned inventor					
Given Nam	en Name (first and middle [if any])				Family Name or Surname					
Daniel M.					Rosenbaum	<u> </u>		-		
Inventor's Signature	Ţ				<u> </u>		Date			
Residence	City	Somerville	State	MA	Country	US	Cit	tizenship	US	
Mailing Address	69 Be	acon Street, #3	3	1		!	<u></u>			
Mailing Address (ln. 2)	City	Somerville	MA	ZIP	02143	Country		US		

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DECLARAT	JONEAND POWER	Attorney Docket No.	LS5-001				
OF ATTORNEY FOR UTILITY		First Named Inventor Liu					
OF	RDESIGN	·	OMPLETE IF KNOWN				
PATENT	APPLICATION	Application Serial Number	10/643,752				
☐ Declaration	□ Declaration	Filing Date	August 19, 2003				
Submitted with	Submitted after Initial	Group Art Unit	Not yet assigned				
Initial Filing	Filing (surcharge	Examiner Name	Not yet assigned				
	37 CFR 1.16(e) required)						

·			· <u>. </u>						
As a below named inventor, I her	reby declare that:			•					
My residence, mailing address, and	d citizenship are as	stated be	low next to my name.						
I believe I am the original, first and names are listed below) of the subj	d sole inventor (if o	only one r	name is listed below) or an or and for which a patent is so	original, first and ught on the inver	joint inventor (if ition entitled:	plural			
number are motors out only as and easy			MOLECULAR FUNCTION						
		(Title	of the Invention)						
the specification of which									
is attached hereto OR									
was filed on (MM/DD/YYYY)	08/19/2003		as United States Application	n Serial Number	or PCT Internati	onal			
Application Number 10/643	3,752 and	was ame	nded on (MM/DD/YYYY)		(if applicabl	le).			
I hereby state that I have reviewed any amendment specifically referre	and understand the	e contents	s of the above-identified app	lication, includin	g the claims, as	amended by			
I acknowledge the duty to disclose to the Patent Office all information known by me to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information known by me which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.									
of the prior application and the nat	I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, or inventor's								
I hereby claim foreign priority ben certificate(s), or 365(a) of any PCT	nefits under 35 U.S. T international appl so identified below	C. 119(a) ication w	o-(d) or (f), or 365(b) of any thich designated at least one sing the box, any foreign ap	foreign applicati country other that plication for pate	on(s) for patent, an the United Sta nt, or inventor's	ites of			
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I hereby claim foreign priority ben certificate(s), or 365(a) of any PCT America, listed below and have als certificate(s), or of any PCT intern Prior Foreign Application Number(s) Additional foreign applic I hereby claim the benefit under 35 Application Serial Number 60/404,395	refits under 35 U.S. T international application at ional application Country cation numbers are 5 U.S.C. 119(e) of	C. 119(a) ication w, by check having a listed on any Unite	a supplemental priority date (MM/DD/YYYY) a States provisional applica ate (MM/DD/YYYYY) a States provisional applica ate (MM/DD/YYYYY)	foreign applicaticountry other the plication for pate application on various Priority Not Claimed	on(s) for patent, an the United Sta nt, or inventor's which priority is Certified Cop YES	claimed. y Attached?			
I hereby claim foreign priority ben certificate(s), or 365(a) of any PCT America, listed below and have als certificate(s), or of any PCT interm Prior Foreign Application Number(s) Additional foreign applic I hereby claim the benefit under 35 Application Serial Number 60/404,395 60/419,667	refits under 35 U.S. T international application at ional application Country cation numbers are 5 U.S.C. 119(e) of	C. 119(a) ication w, by check having a listed on any Unite	a supplemental priority date (MM/DD/YYYY) a supplemental priority date (MM/DD/YYYYY) a Supplemental priority date (MM/DD/YYYYY) 08/19/2002	foreign applicaticountry other the plication for pate application on various Priority Not Claimed	on(s) for patent, an the United Sta nt, or inventor's which priority is Certified Cop YES	claimed. y Attached?			
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I hereby claim foreign priority ben certificate(s), or 365(a) of any PCT America, listed below and have als certificate(s), or of any PCT intern Prior Foreign Application Number(s) Additional foreign applic I hereby claim the benefit under 33 Application Serial Number 60/404,395 60/419,667 60/432,812 60/444,770	refits under 35 U.S. T international application at ional application Country cation numbers are 5 U.S.C. 119(e) of	C. 119(a) ication w, by check having a listed on any Unite	a supplemental priority date (MM/DD/YYYY) a supplemental priority date (MM/DD/YYYYY) a 10/18/2002 12/11/2002 02/04/2003	foreign applicaticountry other the plication for pate application on various Priority Not Claimed	on(s) for patent, an the United Sta nt, or inventor's which priority is Certified Cop YES	claimed. y Attached?			

Declaration and Power of Attorney for Utility or Design Patent Application

Serial No. 10/643,752 Atty. Docket No. LS5-001

Page 2 of 5

DECLARATION - Utility or Design Patent Application I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c), of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application. Parent Patent Number **Parent Filing Date** U.S. Parent Application or PCT Parent (if applicable) Serial Number (MM/DD/YYYY) Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet attached hereto. As a named inventor, I hereby appoint the following registered practitioners to prosecute this application and to transact all business in the Patent Place Customer and Trademark Office connected therewith: Customer Number Number Bar Code OR Label Here Registered practitioner(s) name/registration number listed below Registration Registration Number Name Number Name 38,678 52,538 Duncan A. Greenhalgh Andrew F. Abramson 31,481 William R. Haulbrook 53,002 Steven M. Bauer Ira V. Heffan 41,059 50,773 Mark L. Beloborodov 36,748 Douglas J. Kline 35,574 John V. Bianco 50,389 M. Brad Lawrence 47,210 Robert S. Blasi 41,640 William A. Meunier 41,193 Michael H. Brodowski 43,526 Thomas C. Meyers 36,989 Jennifer A. Camacho Jennifer G. Moitoso 51,752 36,471 Joseph A. Capraro, Jr. 51,551 Ronda P. Moore 44,244 Fangli Chen Jeremy P. Oczek 50,794 Christopher H. Chung 50,351 Jamie H. Rose 45,054 38,116 John J. Cotter Christopher W. Stamos 35,370 James C. De Vellis 52,814 46,667 Diana M. Steel 43,153 Robert V. Donahoe 48,645 Robert J. Tosti 35,393 Brian A. Fairchild James E. Fajkowski 54,089 Thomas A. Turano 35,722 52,892 Natasha C. Us 44,381 Jason P. Fiorillo 39,061 John V. Forcier 42,545 Christine C. Vito Daniel A. Wilson 45,508 33,497 Steven J. Frank 47,577 Gerald E. Worth 45,238 Kia L. Freeman 44,691 Brian M. Gaff Edward A. Gordon 54,130 ☐ Additional registered practitioners named on supplemental Registered Practitioner Information sheet attached hereto. Patent Administrator Direct all correspondence to: Testa, Hurwitz & Thibeault, LLP High Street Tower 125 High Street Boston, MA 02110 Tel. No.: (617) 248-7000 Fax No.: (617) 248-7100

Name of Sole or First In	entor:			A	A petition has been filed for this unsigned inventor					
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Inventor's Signature			-				Date			
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Mailing Address	1 Fox	Run Lane					<u> </u>			
Mailing Address (ln. 2)	City	Lexington	State	MA	ZIP	02420	Country		US	
Additional inventors a	re being	g named on the	SI	ipplementa	al Additional I	nventor(s) she	et(s) attacl	hed hereto.		
Name of Additional Join									ventor	
Given Nam	ne (first	and middle [if a	my])			Famil	y Name o	r Surname		
Zev J.	`				Gartner					
Inventor's Signature						Date				
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Mailing Address	66 Dir	nick Street, #1	<u> </u>		!	-1				
Mailing Address (ln. 2)	City	Somerville	State	MA	ZIP	02143	Country		US	
Name of Additional Join	t Inven	tor, if any:		.t.	☐ A petit	ion has been fi	led for thi	s unsigned	inventor	
Given Name	e (first a	nd middle [if ar	ıy])			Family	Name or	Surname		
Jeffrey B.					Doyon					
Inventor's Signature							Date			
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Mailing Address	71 Alc	lie Street, #3	•							
Mailing Address (ln. 2)	City	Allston	State	MA	ZIP	02134	Country		US	

Name of Additional Join	t Inven	tor, if any:			☐ A petit	tion has been f	iled for this	unsigned	linventor
Given Name	e (first :	and middle [if an	 (v])	,		Famil	y Name or	Surname	
Christopher T.			7 1 /		Calderone				
Inventor's Signature	(un a	—				Date	10/	30/03
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Mailing Address	6 Ply	mouth Street, #1	l .						
Mailing Address (ln. 2)	City Cambridge State MA				ZIP	02141	Country		US
Name of Additional Join	t Inventor, if any:				☐ A petit	tion has been fi	iled for this	unsigned	inventor
Given Name	e (first a	and middle [if an	y])			Famil	y Name or	Surname	
Matthew W.					Kanan		-		
Inventor's Signature							Date		
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Mailing Address	44 La	ngdon Street							
Mailing Address (ln. 2)	City	Cambridge	State	MA	ZIP	02138	Country		US
Name of Additional Join	t Inven	tor, if any:			☐ A petit	ion has been fi	led for this	unsigned	inventor
Given Name	e (first a	ınd middle [if an	y])		Family Name or Surname				
Xiaoyu					Li				
Inventor's Signature							Date		
Residence	City	Cambridge	State	MA	Country	US	Citizenship	Peopl China	e's Republic of
Mailing Address	22 M	arcella Street, #.	3						_
Mailing Address (ln. 2)	City	Cambridge	State	MA	ZIP	02141	Country		US
Name of Additional Join	t Inven	tor, if any:			☐ A petit	ion has been fi	led for this	unsigned	inventor
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Mailing Address (ln. 2)	City	Cambridge	State	MA	ZIP	02138	Country		US

Name of Additional Joint Inventor, if any:					A petition has been filed for this unsigned inventor					
Given Name (first and middle [if any])				Family Name or Surname						
Daniel M.				Rosenbaum						
Inventor's Signature				, <u>, , , , , , , , , , , , , , , , , , </u>	· · · · · · · · · · · · · · · · · · ·		Date			
Residence	City	Somerville	State	MA	Country	US	Ci	tizenship	US	
Mailing Address	69 Be	59 Beacon Street, #3								
Mailing Address (ln. 2)	City	Somerville	State	MA	ZIP	02143	Country		US	

DECLARAT	TION AND POWER	Attorney Docket No.	LS5-001
	NEY FOR UTILITY	First Named Inventor	Liu
OI	R DESIGN JAN 2 0 2004	·	OMPLETE IF KNOWN
PATENT	APPLICATION	Application Serial Number	10/643,752
☐ Declaration	□ Declaration	Filing Date	August 19, 2003
Submitted with	Submitted after Initial	Group Art Unit	Not yet assigned
Initial Filing	Filing (surcharge	Examiner Name	Not yet assigned
	37 CFR 1.16(e) required)		

As a below named inventor, I	harahy declar	e that:		······································						
	_									
My residence, mailing address,										
I believe I am the original, first an ames are listed below) of the su	and sole inven ubject matter v	tor (if only one not which is claimed	name is listed below) or an og and for which a patent is so	original, first and ught on the inver	joint inventor (ition entitled:	if plural				
	. E.	VOLVING NEW	MOLECULAR FUNCTION	N .		_				
(Title of the Invention)										
the specification of which										
is attached hereto OR										
was filed on (MM/DD/YYYY) as United States Application Serial Number or PCT International										
Application Number 10/6	43,752	and was ame	nded on (MM/DD/YYYY)		(if applica	ble).				
I hereby state that I have review any amendment specifically refe	ed and underst	tand the contents	of the above-identified app	lication, includin	ng the claims, a	s amended by				
I acknowledge the duty to disclo 1.56, including for continuation of the prior application and the	-in-part applic	ations, material i	nformation known by me w	hich became ava	ilable between	ned in 37 CFR the filing date				
I hereby claim foreign priority b certificate(s), or 365(a) of any P America, listed below and have certificate(s), or of any PCT inte	enefits under of CT internation also identified	35 U.S.C. 119(a) nal application w below, by check	-(d) or (f), or 365(b) of any hich designated at least one king the box, any foreign ap	foreign applicati country other the plication for pate	on(s) for patent an the United S ant, or inventor	tates of				
Prior Foreign Application	mutional appi	toution having a	Foreign Filing Date	Priority	Certified Co	py Attached?				
Number(s)	Co	untry	(MM/DD/YYYY)	Not Claimed	YES	NO				
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Additional foreign app	plication numb	ers are listed on	a supplemental priority data	a sheet attached h	ereto.					
I hereby claim the benefit under				tion(s) listed belo	ow.					
Application Serial Num	ber(s)	Filing Da	ate (MM/DD/YYYY) 08/19/2002	- .						
60/404,395						•				
60/419,667 10/18/2002										
60/432,812 12/11/2002 60/444.770 02/04/2003										
60/444,770			03/26/2003							
60/457,789 60/469,866			05/12/2003	•		,				
60/479,494			06/18/2003							
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DECLARATION – Utility or Design Patent Application									
hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c), of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.									
U.S. Parent Application o Serial Numbe			arent Filing Date MM/DD/YYYY)			Patent Number applicable)			
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Additional U.S. or PCT internation	onal application numbers	are listed on a	supplemental priority data sl	heet attach	ed hereto.				
As a named inventor, I hereby appoin	9.0 :					iness in the Patent			
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			s) name/registration number	er listed b	elow .				
	Registration	n				Registration Number			
Name	Number		Name Duncan A. Greenhalgh	- 1	38,678	Number			
Andrew F. Abramson Steven M. Bauer	52,538 31,481		William R. Haulbrook		53,002				
Mark L. Beloborodov	50,773		Ira V. Heffan		41,059	,			
John V. Bianco	36,748		Douglas J. Kline		35,574				
Robert S. Blasi	50,389		M. Brad Lawrence		47,210				
Michael H. Brodowski	41,640		William A. Meunier	ľ	41,193				
Jennifer A. Camacho	43,526		Thomas C. Meyers		36,989				
Joseph A. Capraro, Jr.	36,471		Jennifer G. Moitoso		51,752				
Fangli Chen	51,551		Ronda P. Moore		44,244				
Christopher H. Chung	50,351		Jeremy P. Oczek		50,794				
John J. Cotter	38,116 52,814	İ	Jamie H. Rose Christopher W. Stamos		45,054 35,370				
James C. De Vellis Robert V. Donahoe	46,667		Diana M. Steel	1	43,153				
Brian A. Fairchild	48,645	·	Robert J. Tosti		35,393				
James E. Fajkowski	54,089		Thomas A. Turano	•	35,722				
Jason P. Fiorillo	52,892		Natasha C. Us	-	44,381				
John V. Forcier	42,545		Christine C. Vito	j	39,061				
Steven J. Frank	33,497	·	Daniel A. Wilson	1	45,508				
Kia L. Freeman	47,577	Î	Gerald E. Worth	Ī	45,238				
Brian M. Gaff	44,691			ĺ					
Edward A. Gordon	54,130								
Additional registered				1					
practitioners named on									
supplemental Registered				Ī					
Practitioner Information sheet				ľ					
attached hereto.				•					
Direct all correspondence to:	Patent Administr Testa, Hurwitz & High Street Tow 125 High Street Boston, MA 021 Tel. No.: (617) 2 Fax No.: (617) 2	thibeault, rer 110 148-7000	LLP						

Name of Sole or First Inv	entor:			A pc	A petition has been filed for this unsigned inventor					
		nd middle [if ar	w1)		Family Name or Surname					
David R.	(IIISLA	na madic [ii ai	ינעי	1	iu					
Inventor's Signature				,						
Residence	City	Lexington	State	MA	Country	US		Citizenship	US	
Mailing Address	1 Fox	Run Lane	L		 ;	. I				
Mailing Address (ln. 2)	City	Lexington	State	MA	ZIP	02420	Coun	try	US	
☐ Additional inventors a	re beinį	named on the	su	pplemental .	Additional I	nventor(s) shee	et(s) att	ached hereto		
Name of Additional Joint	t Invent	or, if any:			A petition	has been filed	for thi	s unsigned in	ventor	
Given Nam	ne (first	and middle [if a	ny])			Famil	y Nam	e or Surname	;	
Zev J.	1	-			Gartner		_			
Inventor's Signature	-				Date					
Residence	City	Somerville	State	MA	Country	US		Citizenship	US	
Mailing Address	66 Dir	nick Street, #1							.	
Mailing Address (ln. 2)	City	Somerville	State	MA	ZIP	02143	Coun	try	US	
Name of Additional Join	t Invent	or, if any:			☐ A petit	ion has been fil	led for	this unsigned	linventor	
Given Name	e (first a	nd middle [if ar	ıy])			Family	/ Name	or Surname		
Jeffrey B.				.]	Doyon					
Inventor's Signature							Date			
Residence	City	Allston	State	MA	Country	US		Citizenship	US	
Mailing Address	71 Alc	lie Street, #3								
Mailing Address (ln. 2)	City	Aliston	State	MA	ZIP	02134	Coun	try	US	

Name of Additional Join	t Inven	itor, if any:			.A petit	tion has been	filed for	this u	nsigned	linventor
Given Nam	e (first	and middle [if an				Fami	ily Name	e or Su	rname	
Christopher T.				,	Calderone					
Inventor's Signature				•		Date				
Residence	City	Cambridge	State	MA	Country	US		Citiz	enship	US
Mailing Address	6 Ply	mouth Street, #1	1							
Mailing Address (ln. 2)	City	Cambridge	State	MA	ZIP	02141	Cour	ıtry		US
Name of Additional Join	t Inven	tor, if any:			☐ A petit	tion has been	filed for	this u	nsigned	inventor
	e (first :	and middle [if an	iy])	<u>:</u>		Fami	ly Name	or Su	mame	
Matthew W.					Kanan					
Inventor's Signature	/	noll	7/k				Date 10/30,	- 1		
Residence	City	Cambridge	State	MA	Country	US	,	Citize	enship	US
Mailing Address	44 La	ingdon Street								
Mailing Address (ln. 2)	City	Cambridge	State	MA	IA ZIP 02138 Country US					
Name of Additional Joint Inventor, if any:					☐ A petiti	ion has been t	filed for	this ur	nsigned	inventor
	៖ (first ខ	and middle [if an	<u>iy])</u>			Fami	ly Name	or Su	rname	
Xiaoyu					Li					
Inventor's Signature					٠.		Date			
Residence	City	Cambridge	State	MA	Country	US	Citizens	ship	People China	's Republic of
Mailing Address	22 M:	arcella Street, #.	3							
Mailing Address (ln. 2)	City	Cambridge	State	MA	ZIP	02141	Coun	try		US
Name of Additional Join	t Inven	tor, if any:			☐ A petiti	ion has been f	filed for	this ur	signed	inventor
Given Name	: (first a	and middle [if an	y])			Fami	ly Name	or Su	rname	
Thomas M.					Snyder					
					, , , , , , , , , , , , , , , , , , , ,					
Inventor's Signature							Date			10.124-10.12
Inventor's Signature Residence	City	Cambridge	State	MA	Country	US	Date	Citize	enship	US
		Cambridge rkland Street, #		MA		US	Date	Citize	enship	

Name of Additional Join	t Inven	tor, if any:		A petition has been filed for this unsigned inventor							
Given Name (first and middle [if any])					Family Name or Surname						
Daniel M.					Rosenbaum	1					
Inventor's Signature			· HIA.		,		Date				
Residence	City	Somerville	State	MA	Country	US		Citizen	ship	US	
Mailing Address	69 Be	59 Beacon Street, #3									
Mailing Address (ln. 2)	City	Somerville	State	MA	ZIP	02143	Cour	ntry		US	

DECLARATION A	ND POWER	Attorn	ey Docket No.	LS5-00	-001							
OF ATTORNEY FO	PUTILITY	First N	amed Inventor	Liu								
OR DESIG	JAN 2 0 2004	27	·	OMPLET	TE IF KNOW	ZN						
PATENT APPLI	CATEJON RADEMARK	Applic	ation Serial Number	10/643	,752							
☐ Declaration ☐ Dec	laration	Filing	Date	August	19, 2003							
Submitted with Subm	itted after Initial	Group	Art Unit	Not yet	assigned	,						
Initial Filing Filing	(surcharge	Exami	ner Name	Not yet	assigned							
37 CF	R 1.16(e) required)					·						
As a below named inventor, I hereby declare that:												
My residence, mailing address, and citizenship are as stated below next to my name.												
·				an origi	nal, first and	ioint inventor (it	folural					
I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:												
EVOLVING NEW MOLECULAR FUNCTION												
(Title of the Invention) the specification of which												
is attached hereto OR												
⊠ was filed on (MM/DD/YYYY)	08/19/2003		as United States Applie	cation Se	erial Number	or PCT Internat	ional					
Application Number 10/6	43,752 and	was ame	nded on (MM/DD/YYYY	n		(if applicab	le).					
I hereby state that I have review any amendment specifically refe		contents	of the above-identified	l applicat	tion, includin	g the claims, as	amended by					
I acknowledge the duty to disclo 1.56, including for continuation of the prior application and the	-in-part applications, r	naterial i	nformation known by n	ne which	became avai	lable between th	ed in 37 CFR the filing date					
I hereby claim foreign priority b	enefits under 35 U.S.C	C. 119(a)	-(d) or (f), or 365(b) of	any fore	ign application	on(s) for patent,	or inventor's					
certificate(s), or 365(a) of any P America, listed below and have	CT international appli also identified below.	cation w by check	hich designated at least ging the box, any foreign	one cou n applica	ntry other tha ation for pates	in the United Stant, or inventor's	ites of					
certificate(s), or of any PCT inte	rnational application l	naving a	filing date before that o	of the app	olication on w	which priority is	claimed.					
Prior Foreign Application Number(s)	Country		Foreign Filing Date (MM/DD/YYYY)		Priority ot Claimed	Certified Cop YES	y Attached? NO					
·	,											
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			1 41 41	1								
Additional foreign application of the Additional foreign application o			a supplemental priority									
Application Serial Num			ate (MM/DD/YYYY)	pireacion	(3) fisted bote							
60/404,395		. <u></u>	08/19/2002									
60/419,667			10/18/2002	• .								
60/432,812			12/11/2002									
60/444,770		02/04/2003										
60/457,789			03/26/2003									
60/469,866	1	05/12/2003										
60/479,494		06/18/2003										

DECLAR	$\overline{\mathbb{A}}$ TION – \mathbb{U}	tility o	or Design Paten	t App	lication						
I hereby claim the benefit under 35 U											
United States of America, listed below	w and, insofar as the subje	ect matter of	each of the claims of this applica	tion is not	disclosed in the prior United	Į					
States or PCT International application	on in the manner provided	by the first p	paragraph of 35 U.S.C. 112, I ack	cnowledge 1	the duty to disclose informat	ion					
which is material to patentability as d	lefined in 37 CFR 1.56 wh	nich became a	available between the filing date	of the prior	r application and the nationa	l or					
PCT international filing date of this a					<u>. </u>						
U.S. Parent Application o		P	Parent Filing Date	I I	Parent Patent Number						
Serial Numbe			(MM/DD/YYYY)	l	(if applicable)						
		<u> </u>									
Additional U.S. or PCT internation	onal application numbers :	are listed on a	a supplemental priority data shee	t attached	hereto.						
											
As a named inventor, I hereby appoin		_	to prosecute this application and	i to transaci	Place Customer	\neg					
and Trademark Office connected there	ewith: Customer No	umber		`	Number Bar Code						
	OR			プ	Label Here						
Registered practitioner(s) name/registration number listed below											
	Registration		<u>, </u>		Registration						
Name	Number	п	Name		Number						
Andrew F. Abramson	52,538		Duncan A. Greenhalgh	35	8,678						
Steven M. Bauer			William R. Haulbrook		3,002						
	31,481		Ira V. Heffan		1,059						
Mark L. Beloborodov John V. Bianco	50,773		Douglas J. Kline		5,574						
	36,748		M. Brad Lawrence		7,210						
Robert S. Blasi	50,389		William A. Meunier								
Michael H. Brodowski	41,640				1,193						
Jennifer A. Camacho	43,526	•	Thomas C. Meyers		5,989 1,753						
Joseph A. Capraro, Jr.	36,471		Jennifer G. Moitoso		1,752						
Fangli Chen	51,551		Ronda P. Moore		1,244 2,704						
Christopher H. Chung	50,351		Jeremy P. Oczek		0,794						
John J. Cotter	38,116	:	Jamie H. Rose		5,054						
James C. De Vellis	52,814		Christopher W. Stamos		5,370						
Robert V. Donahoe	46,667		Diana M. Steel		3,153						
Brian A. Fairchild	48,645		Robert J. Tosti		5,393						
James E. Fajkowski	54,089		Thomas A. Turano		5,722						
Jason P. Fiorillo	52,892		Natasha C. Us	1	1,381						
John V. Forcier	42,545		Christine C. Vito		9,061						
Steven J. Frank	33,497		Daniel A. Wilson		5,508						
Kia L. Freeman	47,577		Gerald E. Worth	45	5,238						
Brian M. Gaff	44,691										
Edward A. Gordon	54,130		•	-							
	1										
	<u> </u>										
Additional registered											
practitioners named on											
supplemental Registered	ĺ										
Practitioner Information sheet											
attached hereto.				1							
Direct all correspondence to:	Patent Administr	rator									
	Testa, Hurwitz &	Thibeault,	LLP								
	High Street Towe										
	125 High Street										
	Boston, MA 021	10			•						
•	Tel. No.: (617) 24										
	Fax No.: (617) 24										
	` ,										

Name of Sole or First Inv	ventor:			ПАр	☐ A petition has been filed for this unsigned inventor						
Given Name	e (first a	nd middle [if an	y])			Family	/ Name	or Surname			
David R.					Liu						
Inventor's Signature							Date				
Residence	City	Lexington	State	MA	Country	US .		Citizenship	US		
Mailing Address	1 Fox	Run Lane									
Mailing Address (ln. 2)	City	Lexington	State	MA	ZIP	02420	Coun	try	US		
Additional inventors a	re being	eing named on the supplemental Additional Inventor(s) sheet(s) attached hereto.									
Name of Additional Join	t Invent	or, if any:			A petition has been filed for this unsigned inventor						
Given Name (first and middle [if any])					Family Name or Surname						
Zev J.					Gartner						
Inventor's Signature							Date				
Residence	City	Somerville	State	MA	Country	US		Citizenship	US		
Mailing Address	66 Dir	nick Street, #1	<u></u>		-						
Mailing Address (ln. 2)	City	Somerville	State	MA	ZIP	02143	Coun	try	US .		
Name of Additional Join	t Inven	or, if any:			☐ A petit	ion has been fi	led for	this unsigned	linventor		
Given Name	e (first a	nd middle [if an	y])			Family	/ Name	or Surname			
Jeffrey B.					Doyon						
Inventor's Signature							Date				
Residence	City	Allston	State	MA	Country	US		Citizenship	US		
Mailing Address	71 Alc	lie Street, #3	-			•					
Mailing Address (ln. 2)	City	Allston	State	MA	ZIP	02134	Coun	try	US		

Name of Additional Join		A petition has been filed for this unsigned inventor								
Given Nam	e (first:	and middle [if an	[v])			Famil	y Name or S	urname		
Christopher T.			2.4/		Calderone		,			
Inventor's Signature							Date			
Residence	City	Cambridge	State	MA	Country	US	Citi	zenship	US	
Mailing Address	6 Ply	mouth Street, #1	Ī				-			
Mailing Address (ln. 2)	City	Cambridge	State	MA	ZIP	02141	Country		US	
Name of Additional Join	t Inven	tor, if any:		A petition has been filed for this unsigned inventor						
Given Nam	e (first a	and middle [if an	y])			Famil	y Name or S	urname		
Matthew W.					Kanan					
Inventor's Signature			-				Date			
Residence	City	Cambridge	State	MA	Country	US	Citi	zenship	US	
Mailing Address	44 La	ngdon Street								
Mailing Address (ln. 2)	City	Cambridge	State MA ZIP 02138 Country US						US	
Name of Additional Joint Inventor, if any:					☐ A petit	ion has been fi	led for this	ınsigned	l inventor	
Given Name	e (first a	and middle [if an	y])			Family	y Name or S	urname		
Xiaoyu					Li					
Inventor's Signature		\ .							30/03	
Residence	City	Cambridge	State	MA	Country	US C	Citizenship	Peopl China	e's Republic of	
Mailing Address	22 Ma	arcella Street, #3	3							
Mailing Address (ln. 2)	City	Cambridge	State	MA	ZIP	02141	Country		US	
Name of Additional Join	t Inven	tor, if any:			☐ A petit	ion has been fi	led for this u	ınsigned	inventor	
Given Name	e (first a	and middle [if an	y])			Family	Name or S	urname		
Thomas M.					Snyder					
Inventor's Signature							Date			
Residence	City	Cambridge	State	MA	Country	US	Citi	zenship	US	
Mailing Address	70 Ki	rkland Street, #	9							
Mailing Address (ln. 2)	City	Cambridge	State	MA	ZIP ,	02138	Country		US	

Name of Additional Join		A petition has been filed for this unsigned inventor								
Given Nam	e (first	and middle [if a	ny])		Family Name or Surname					
Daniel M.					Rosenbaum	1				
Inventor's Signature							Date			
Residence	City	Somerville	State	MA	Country	US		Citizenship	US	
Mailing Address	69 Be	acon Street, #3	-							
Mailing Address (ln. 2)	City	Somerville	State	MA	ZIP	02143	Cour	ntry	US	

DECLARATI	ON AND PC	MEER	Attorn	ey Docket No.	LS5-	001						
OF ATTORN	EY FOR UT	ILITY &	First N	amed Inventor	Liu	· · · · · · · · · · · · · · · · · · ·						
li e	DESIGN	2 0 2004	-	C	OMPL	ETE IF KNOW	ZN					
PATENT A	APPLICATI	DINESPER E	Applic	ation Serial Number	10/6	13,752						
☐ Declaration	□ Declaration		Filing	Date	Augi	ıst 19, 2003						
Submitted with	Submitted afte	r Initial	Group	Art Unit	Not	et assigned						
Initial Filing	Filing (surchar	·ge	Exami	ner Name	Not	vet assigned						
minum 1 ming	37 CFR 1.16(e				•							
	37 OX XX XX XX	<u></u>			<u></u>		 					
As a below named inv	entor. I hereby d	eclare that:					· · · · · · · · · · · · · · · · · · ·					
			tated be	low next to my name.								
My residence, mailing address, and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural												
names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:												
		EVOLVIN	IG NEW	MOLECULAR FUN	CTION	Ī						
	(Title of the Invention)											
the specification of which												
is attached hereto OR												
was filed on (MM/DD/YYYY)		3/19/2003		as United States Appl	lication	Serial Number	or PCT Interna	ational				
Application Number	10/643,752	and v	vas amei	nded on (MM/DD/YYY	Y) [(if applica	ble).				
I hereby state that I have any amendment specifi			contents	of the above-identifie	d appli	cation, includin	g the claims, a	s amended by				
I acknowledge the duty 1.56, including for con of the prior application	to disclose to the	Patent Office	naterial i	nformation known by:	me whi	ch became avai	lable between	ned in 37 CFR the filing date				
I hereby claim foreign certificate(s), or 365(a) America, listed below	priority benefits u of any PCT inter and have also ider	nder 35 U.S.C national applicatified below, b	C. 119(a) cation w by check	-(d) or (f), or 365(b) o hich designated at leas ting the box, any foreig	of any for st one co	oreign application ountry other that ication for pate	on(s) for patent an the United S nt, or inventor'	states of				
certificate(s), or of any	PCT internationa	l application h	aving a	filing date before that	of the a	pplication on v	vhich priority is	s claimed.				
Prior Foreign Applica Number(s)	ition	Country		Foreign Filing Da (MM/DD/YYYY		Not Claimed	YES	NO				
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				a supplemental priorit								
I hereby claim the bene Application Ser				ate (MM/DD/YYYY)		on(s) fisted beit	, w.					
60/404			ming D	08/19/2002								
60/419				10/18/2002								
60/432				12/11/2002				,				
60/444	•		02/04/2003									
60/45	7,789		03/26/2003									
60/469	,866		05/12/2003									
60/479),49 ['] 4			06/18/2003								

							
	RATION – U						
I hereby claim the benefit under 35 U United States of America, listed below States or PCT International application which is material to patentability as d PCT international filing date of this a	w and, insofar as the subject on in the manner provided befined in 37 CFR 1.56 wh	ect matter of e by the first p	each of the claims of this aragraph of 35 U.S.C. 1	application is 12, I acknowle	s not discle edge the du prior appl	osed in the prior United uty to disclose information lication and the national or	
U.S. Parent Application of Serial Number			arent Filing Date MM/DD/YYYY)	,		nt Patent Number (if applicable)	
Additional U.S. or PCT internation	onal application numbers	are listed on a	supplemental priority d	lata sheet attac	hed hereto	0.	
As a named inventor, I hereby appoin and Trademark Office connected ther			to prosecute this applica	ation and to tra	o transact all business in the Patent Place Customer Number Bar Code Label Here		
		ـــا eractitioner(s	s) name/registration n	umber listed	below	11000 110, 0	
	Registratio	n `			ł	Registration	
Name	Number		Name			Number	
Andrew F. Abramson Steven M. Bauer Mark L. Beloborodov John V. Bjanco Robert S. Blasi Michael H. Brodowski Jennifer A. Camacho Joseph A. Capraro, Jr. Fangli Chen Christopher H. Chung John J. Cotter James C. De Vellis Robert V. Donahoe Brian A. Fairchild James E. Fajkowski Jason P. Fiorillo John V. Forcier Steven J. Frank Kia L. Freeman Brian M. Gaff Edward A. Gordon	52,538 31,481 50,773 36,748 50,389 41,640 43,526 36,471 51,551 50,351 38,116 52,814 46,667 48,645 54,089 52,892 42,545 33,497 47,577 44,691 54,130		Duncan A. Greenha William R. Haulbro Ira V. Heffan Douglas J. Kline M. Brad Lawrence William A. Meuniet Thomas C. Meyers Jennifer G. Moitoso Ronda P. Moore Jeremy P. Oczek Jamie H. Rose Christopher W. Star Diana M. Steel Robert J. Tosti Thomas A. Turano Natasha C. Us Christine C. Vito Daniel A. Wilson Gerald E. Worth	r ,	38,678 53,002 41,059 35,574 47,210 41,193 36,989 51,752 44,244 50,794 45,054 35,370 43,153 35,393 35,722 44,381 39,061 45,508 45,238	2 3 4 3 3 4 4 4 4 4 8	
Additional registered practitioners named on supplemental Registered Practitioner Information sheet attached hereto.	·			-			
Direct all correspondence to:	Patent Administ Testa, Hurwitz & High Street Tow 125 High Street Boston, MA 02 Tel. No.: (617) 2 Fax No.: (617) 2	t Thibeault, ver 110 148-7000	LLP · .			·	

Name of Sole or First Inv	ventor:			ПАр	petition has been filed for this unsigned inventor						
Given Name	(first a	nd middle [if ar	ıy])	T		Family	Name	or Surnam	e		
David R.					Liu						
Inventor's Signature							Date				
Residence	City	Lexington	n State MA Country US Citizenship US						US		
Mailing Address	1 Fox	Run Lane	n Lane								
Mailing Address (ln. 2)	City	Lexington	State	MA	ZIP 02420 Country US					US	
Additional inventors a	re being	being named on the supplemental Additional Inventor(s) sheet(s) attached hereto.									
Name of Additional Join					A petition has been filed for this unsigned inventor						
Given Name (first and middle [if any])					Family Name or Surname						
Zev J.					Gartner						
Inventor's Signature							Date				
Residence	City	Somerville	State	MA	Country	US		Citizenshi	p	US	
Mailing Address	66 Dir	nick Street, #1						-			
Mailing Address (ln. 2)	City	Somerville	State	MA	ZIP	02143	Cour	itry		US	
Name of Additional Join	t Invent	tor, if any:			☐ A petit	ion has been fi	led for	this unsign	ed	inventor	
Given Name	e (first a	nd middle [if ar	ny])			Family	/ Name	or Surnan	e_		
Jeffrey B.					Doyon					٠,	
Inventor's Signature			<u> </u>	· · · · · ·			Date				
Residence	City	Aliston	State	MA	Country	US		Citizenshi	p	US	
Mailing Address	71 Alc	lie Street, #3									
Mailing Address (ln. 2)	City	Allstoń	State	MA	ZIP	02134	Cour	ntry		US	

Name of Additional Join	of Additional Joint Inventor, if any:					A petition has been filed for this unsigned inventor					
Given Nam	e (first	and middle [if ar	ıy])			Fami	ly Name	or Surname	· .		
Christopher T.					Calderone						
Inventor's Signature						Date		-			
Residence	City	Cambridge	State	MA	Country	US		Citizenship	US		
Mailing Address	6 Ply	mouth Street, #1	1								
Mailing Address (ln. 2)	City	Cambridge	State	MA	ZIP	02141	Count	ry	US		
Name of Additional Join	t Inven	itor, if any:		A petition has been filed for this unsigned inventor							
Given Nam	e (first	and middle [if an	 iy])			Famil	y Name	or Surname			
Matthew W.					Kanan						
Inventor's Signature						·	Date				
Residence	City	Cambridge	State	MA	Country	US	1	Citizenship	US		
Mailing Address	44 La	ingdon Street									
Mailing Address (ln. 2)	City	Cambridge	State MA ZIP 02138 Country US						US		
Name of Additional Join			☐ A petit	ion has been f	iled for t	his unsigned	inventor				
Given Name	e (first a	and middle [if an	y])			Famil	y Name o	or Surname			
Xiaoyu					Li		•				
Inventor's Signature							Date				
Residence	City	Cambridge	State	MA	Country	US	Citizensh	ip Peopl China	e's Republic of		
Mailing Address	22 M	arcella Street, #3	3	·							
Mailing Address (ln. 2)	City	Cambridge	State	MA	ZIP	02141	Countr	ry	US		
Name of Additional Join	t Inven	tor, if any:			☐ A petit	ion has been fi	iled for th	his unsigned	inventor		
Given Name	e (first a	and middle [if an	y])			Famil	y Name o	or Surname			
Thomas M.	The	m.			Snyder	ngder	_				
Inventor's Signature							Date 10/30	0/03			
Residence	City	Cambridge	State	MA	Country	US		Citizenship	US		
Mailing Address		rkland Street, #									
Mailing Address (ln. 2)	City	Cambridge	State	MA	ZIP	02138	Countr	у	US		

Name of Additional Join	ıt Inven	itor, if any:			A petition has been filed for this unsigned inventor							
Given Nam	e (first	and middle [if a	ny])			Family Name or Surname						
Daniel M.		-			Rosenbaum	<u></u>						
Inventor's Signature							Date					
Residence	City	Somerville	State	MA	Country	US		Citizenship	US			
Mailing Address	69 Be	eacon Street, #3	,	•	•	•			· · · · · ·			
Mailing Address (ln. 2)	City	Somerville	State	MA	ZIP	02143	Country	у	US			

DECLARATIO	N AND POY	Attor	ney Docket No.	LS5-001							
OF ATTORNE	Y FOR UTII	First	Named Inventor	Liu							
OR D	esign jan 2	.\$0	COMPLETE IF KNOWN								
PATENT A	PPLICATIO	OFWARM OF Appl	ication Serial Number	10/643,752							
☐ Declaration ☐	Declaration	Filin	g Date	August 19, 2003							
Submitted with	Submitted after I	nitial Grou	p Art Unit	Not yet assigned							
Initial Filing	Filing (surcharge	Exan	niner Name	Not yet assigned							
As a below named inver											
My residence, mailing ad	•	-									
I believe I am the origina names are listed below) o	d, first and sole involent the subject matter	entor (if only one which is claime	name is listed below) or a dand for which a patent is	n original, first and sought on the inver	joint inventor (if plural ntion entitled:						
			W MOLECULAR FUNC								
		(Titl	e of the Invention)	**							
the specification of whicl	h										
is attached here OR	eto										
was filed on (MM/DD/YYYY)	was filed on 08/19/2003 as United States Application Serial Number or PCT International										
Application Number 10/643,752 and was amended on (MM/DD/YYYY) (if applicable).											
I hereby state that I have any amendment specifica			ts of the above-identified	application, including	ng the claims, as amended by						
I acknowledge the duty to 1.56, including for continuous	o disclose to the Part app	atent Office all inf	information known by m	e which became ava	stability as defined in 37 CFR ilable between the filing date						
of the prior application a	nd the national or	PCT international	filing date of the continua	tion-in-part applica	tion.						
certificate(s), or 365(a) o	f any PCT internat	ional application	which designated at least of	one country other th	on(s) for patent, or inventor's an the United States of						
America, listed below an	d have also identif	ied below, by che	cking the box, any foreign a filing date before that of	application for pate	ent, or inventor's						
Prior Foreign Applicati		optication naving	Foreign Filing Date	Priority Priority	Certified Copy Attached?						
Number(s)		Country	(MM/DD/YYYY)	Not Claimed	YES NO						
•											
			•								
			n a supplemental priority								
I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.											
Application Serial Number(s) Filing Date (MM/DD/YYYY) 60/404,395 08/19/2002											
60/404,3			10/18/2002								
60/432,8			12/11/2002								
60/444,7			02/04/2003								
60/457,7			03/26/2003								
60/469,8			05/12/2003								
60/479,4			06/18/2003								

										
DECLAR	RATION – U	tility o	or Design Pa	itent Ap	plica	tion				
I hereby claim the benefit under 35 U United States of America, listed belov States or PCT International application which is material to patentability as d PCT international filing date of this a	w and, insofar as the subje on in the manner provided lefined in 37 CFR 1.56 wh	ct matter of by the first p	each of the claims of this paragraph of 35 U.S.C. 11	application is a 12, I acknowled	not disclose ge the duty	d in the prior United to disclose information				
U.S. Parent Application or PCT Parent Parent Filing Date Parent Patent Number Serial Number (MM/DD/YYYY) (if applicable)										
Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet attached hereto.										
Additional U.S. or PCT internation	onal application numbers a	re listed on	a supplemental priority d	ata sheet attach	ed hereto.					
As a named inventor, I hereby appoint the following registered practitioners to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: Customer Number OR Registered practitioner(s) name/registration number listed below										
		•	s) name/registration in	iniber fisted t	CIOW					
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Steven M. Bauer	1 -		William R. Haulbro	-	53,002					
	31,481		Ira V. Heffan	JK		•				
Mark L. Beloborodov	50,773				41,059					
John V. Bianco	36,748		Douglas J. Kline M. Brad Lawrence		35,574					
Robert S. Blasi	50,389				47,210	•				
Michael H. Brodowski	41,640		William A. Meunier		41,193					
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	44,691									
Edward A. Gordon	54,130									
	•									
Additional registered				ŀ						
practitioners named on			ļ.	į		·				
supplemental Registered			İ	ļ						
Practitioner Information sheet										
attached hereto.										
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		tor, if any: and middle [if an	y])					nis unsigned or Surname	inventor				
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